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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIDENCE
09/950,081	09/12/2001	Hiroya Okumura	2001-1255A	CONFIRMATION NO.
513	7590 11/17/2004		EXAMINER	
WENDEROTH, LIND & PONACK, L.L.P. 2033 K STREET N. W.			RUTHKOSKY, MARK	
SUITE 800 WASHINGT	ON, DC 20006-1021		ART UNIT	PAPER NUMBER
	511, BC 20000-1021		1745	
		·	DATE MAILED: 11/17/2004	,

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
Office Action Su	09/950,081	OKUMURA ET AL.
Office Action Summary	Examiner	Art Unit
The MAIL DIO DOCT	Mark Ruthkosky	
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet wi	th the correspondence address
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perion - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	PLY IS SET TO EXPIRE 3 MON. 1.136(a). In no event, however, may a reeply within the statutory minimum of thirty and will apply and will expire SIX (6) MONT	ONTH(S) FROM sply be timely filed (30) days will be considered timely.
Status		
1) Responsive to communication(s) filed on 26. 2a) This action is FINAL . 2b) Th 3) Since this application is in condition for allows closed in accordance with the practice under Disposition of Claims	is action is non-final.	rs, prosecution as to the merits is 11, 453 O.G. 213.
4) Claim(s) 1-8 and 10-18 is/are pending in the a 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 1-8 10-18 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/o	awn from consideration.	
Application Papers	į-m emerit.	
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Exercisity under 35 U.S.C. § 119	epted or b) objected to by drawing(s) be held in abeyance.	See 37 CFR 1.85(a).
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:	priority and a of the co	
 a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of the priori application for a list of the priori application from the International Bureau 	have been received. have been received in Applicate documents have been received.	cation No eived in this National Stage
ttachment(s)		
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date Patent and Trademark Office	4) Interview Summ Paper No(s)/Mail 5) Notice of Informa 6) Other:	ary (PTO-413) Date al Patent Application (PTO-152)
L-326 (Rev. 1-04)	on Summary	

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The rejection of claims 1-19 under 35 U.S.C. 112, second paragraph, has been overcome by the applicant's amendment

Specification

The amendment filed 1/5/2004 and objected to under 35 U.S.C. 132 has been overcome by the applicant's amendment.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-3, 10 and 16-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Emanuelson et al. (4,301,222.)

The instant claims are to a resin composition for a separator of a fuel cell, which comprises an electroconductive agent and a radical-polymerizable thermosetting resin system wherein the weight ratio of the electroconductive agent and a radical-polymerizable thermosetting resin system is 65/35 to 92/8.

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Emanuelson et al. (4,301,222) teaches a resin composition for a separator of a fuel cell, which consists essentially of an electroconductive agent and a radical-polymerizable, thermosetting resin system (see claim 1.) The materials are mixed and molded to form a fuel cell separator plate (col. 9, line 15.) It is noted that mixing inherently involves applying pressure to the material and that kneading and mixing are equivalent processes. Further, the weight ratio of the electroconductive agent and a radical-polymerizable thermosetting resin system is 65/35 (see col. 6, lines 35-45.)

With regard to the limitation that the resin is kneaded with a pressure kneader under a pressure of 9.8 x 10³ to 9.8x10⁵ Pa higher than atmospheric pressure, this limitation is a product by process limitation. MPEP 2113 states, "Even though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process." Thus, the claims are anticipated.

Claims 1-8 and 10-18 are rejected under 35 U.S.C. 102(b) as being anticipated by Butler (US 6,251,308.)

Butler (US 6,251,308) teaches a resin composition for a separator of a fuel cell comprising an electroconductive agent and a radical-polymerizable thermosetting resin system (see column 4.) The electroconductive agent includes carbonaceous materials such as graphite in various concentrations including a range from 65/35 to 92/8 (col. 4, lines 37-65.) The radical-polymerizable thermosetting resin system includes a vinyl-ester series resin in which

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methacrylate is added to a bisphenol A resin (col. 4, lines 15-40.) A radical-polmerizable dilutant of styrene is added in a specific range (col. 4, lines 25-40.) The double bond equivalent and glass transition temperature of the composition are inherent features of the compound. Low-profile agents are noted throughout the reference (including the various compounds in columns 5 and 6.) The agents are added in the range of 0.1 to 30 parts (wt.) relative to the radical-polymerizable thermosetting resin system. An example includes polyvinyl acetate (col. 6, lines 37-end.) Molding and mixing the materials, including pressure kneading and molding, are noted in col. 6, line 60 to col. 7. It is noted that mixing inherently involves applying pressure to the material and that kneading and mixing are equivalent processes.

With regard to the limitation that the resin is kneaded with a pressure kneader under a pressure of 9.8 x 10³ to 9.8x10⁵ Pa higher than atmospheric pressure, this limitation is a product by process limitation. MPEP 2113 states, "Even though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process." Thus, the claims are anticipated.

Response to Arguments

Applicant's arguments with respect to claims 1-8 and 10-19 have been considered but are not persuasive. Applicant's arguments with respect to the claims rejected under 35 U.S.C. 103(a)

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as being obvious over Butler (US 6,251,308.) in view of Emanuelson et al. (4,301,222) have been considered but are moot in view of the new ground(s) of rejection.

With regard to the applicant's arguments to Emanuelson et al., the reference teaches a ratio of conductive material to binder resin of 45-65 weight percent graphite powder to 55-35 weight percent resin. As this ratio includes the claimed percentage, the claims are anticipated. Arguments with regard to the properties of the separator plate are not sufficient to overcome a rejection under 35 U.S.C. 102.

With regard to the applicant's arguments to Butler et al., the reference teaches a ratio of conductive material to binder resin at various points in the claimed range of 65/35 to 92/8. As the ratio includes the claimed percentage, the claims are anticipated. Arguments with regard to the properties of the separator plate are not sufficient to overcome a rejection under 35 U.S.C. 102.

It is noted that the applicant's arguments with regard to unexpected results are not sufficient to overcome a rejection under 35 U.S.C. 102.

With regard to the applicant's arguments that the references do not teach a product made by a process wherein the conductive agent and resin are kneaded with a pressure kneader under a pressure of 9.8 x 10³ to 9.8x10⁵ Pa higher than atmospheric pressure, this limitation is a product by process limitation. MPEP 2113 states, "Even though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process."

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Examiner Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Ruthkosky whose telephone number is 571-272-1291. The examiner can normally be reached on FLEX schedule (generally, Monday-Thursday from 9:00-6:30.) If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Ryan can be reached at 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mark Ruthkosky
Primary Patent Examiner
Art Unit 1745

11/10/04